



# BOARD OF COMMISSIONERS

1 S. Main St., 9th Floor  
Mount Clemens, Michigan 48043  
586-469-5125 FAX 586-469-5993  
[macombcountymi.gov/boardofcommissioners](http://macombcountymi.gov/boardofcommissioners)

## AD HOC COMMITTEE ON ENERGY

WEDNESDAY, MAY 6, 2009

### AGENDA

1. Call to Order
2. Pledge of Allegiance
3. Adoption of Agenda, **AS AMENDED, TO INCLUDE #7, 8, 9 AND 10**
4. Public Participation
5. Presentation by Facilities and Operations Department
6. Presentation by Department of Planning and Economic Development
7. Summary of Energy Efficiency Projects (attached)
8. Authorization to Enroll in Rebuild Michigan Program for Purpose of Conducting Technical Energy Analysis on Several County Buildings (attached)
9. Release of RFP for Consultant to Assist County in Developing Mandatory Energy Efficiency Conservation Strategy (attached)
10. Authorize Department of Planning and Economic Development to Coordinate Preparation of Energy Efficiency and Conservation Block Grant Proposal (attached)
11. New Business
12. Public Participation
13. Adjournment

**MEMBERS:** Moceri-Chair, Carabelli-Vice-Chair, Accavitti, Boyle, Kepler, Lampar, Szczepanski and Gielegem (ex-officio)

### MACOMB COUNTY BOARD OF COMMISSIONERS

Andrey Duzyj - District 1  
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Toni Moceri - District 4  
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David Flynn - District 8  
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Kathy D. Vosburg - District 25  
Jeffery S. Sprys - District 26

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE: \_\_\_\_\_

AGENDA ITEM: \_\_\_\_\_

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO** \_\_\_\_\_ receive and file the summary of energy efficiency projects submitted by the  
Facilities and Operations Department Director \_\_\_\_\_

**INTRODUCED BY:** \_\_\_\_\_ Toni Mocerri, Chair, Ad Hoc Committee on Energy \_\_\_\_\_

**COMMITTEE/MEETING DATE**

Ad Hoc on Energy 5-6-09  
\_\_\_\_\_



## FACILITIES & OPERATIONS DEPARTMENT

10 N. Main St., 13th Floor  
Mount Clemens, Michigan 48043  
586-469-5244 FAX 586-469-7770

Lynn M. Arnott-Bryks  
Director

Diane G. Connell  
Operations Supervisor

Larry K. Oakes  
Mechanical Systems Supervisor

Estella Shelton  
Maintenance Supervisor

To: Commissioner Toni Mocerì, Chair  
AD HOC Committee on Energy

Subject: Summery  
Energy Efficiency Projects

Date: April 30, 2009

Attached herewith is a summary of Energy efficiency projects that could be considered under the Energy Efficiency and Conservation Block Grant (EECBG) program.

If you have any questions, please contact the undersigned.

Respectfully,



Lynn M. Arnott-Bryks  
Director, Facilities & Operations

LAB/sj

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**ENERGY EFFICIENCY  
STIMULUS PRIORITY LIST  
APRIL 2009**

PROJECT LOCATION	DESCRIPTION	COSTS ESTIMATES	PRIORITY	TIMELINE START TO FINISH	POTENTIAL FUNDING SOURCE	DEPARTMENT'S INVOLVED	POTENTIAL SAVINGS
County Building	Replace 19 water cooled air conditioning units with 1 air cooled chiller with forced air distribution system. Unit will have an economizer cycle to utilize outside air for mild weather months resulting in substantial savings on water sewage and electrical cost. Existing units are beyond their useful life.	\$ 255,500.00	1	9 Months	Stimulus	Facilities & Operations Dept -Development of Specifications -Oversite Purchasing Dept -- Bid Process Planning Dept -- Grant Prep	\$65,000.00 Annually
County Building	Retrofit 1,300 2x4 4-Tube T-12 recessed fixtures to 2-Tube T8 with electronic ballast with reflector. Motion sensors where practical.	\$135,000.00	2	5 Months	Stimulus	Facilities & Operations Dept -Development of Specifications -Oversite Purchasing Dept -- Bid Process Planning Dept -- Grant Prep	\$14,000.00 Annually
Hall Road Warehouse	Replace 138 High Bay Fixtures with Alumalight T-5 4L with motion sensor	\$60,000.00	2	3 Months	Stimulus	Facilities & Operations Dept -Development of Specifications -Oversite Purchasing Dept -- Bid Process Planning Dept -- Grant Prep	\$9,600.00 Annually

# **ENERGY EFFICIENCY STIMULUS PRIORITY LIST (cont.)**

PROJECT LOCATION	DESCRIPTION	COSTS ESTIMATES	PRIORITY	TIMELINE START TO FINISH	POTENTIAL FUNDING SOURCE	DEPARTMENT'S INVOLVED	POTENTIAL SAVINGS
Jail (Tower)	Install/Retrofit new water saving faucets on existing penal fixtures (200 fixtures).	\$115,000.00	1	8 Months	Stimulus	Facilities & Operations Dept -Development of Specifications -Oversite Purchasing Dept – Bid Process Planning Dept – Grant Prep	\$50,000.00 Annually
	Purchase and install water saving Conservacaps and Sloan Kits						



## FINANCE DEPARTMENT

### Purchasing Division

10 N. Main St., 13th Floor  
Mount Clemens, Michigan 48043  
586-469-5255 FAX 586-469-6612  
macombcountymi.gov/purchasing

David M. Diegel  
Finance Director

Polly A. Helzer  
Purchasing Manager

Tim Corcoran  
Asst. Purchasing Manager

Date: May 4, 2009

To: Commissioner Toni Mocerì, Chair, Ad Hoc Committee on Energy

Subject: Energy Conservation Programs

The Macomb County Purchasing Department and the Facilities & Operations Department have accomplished the following with regards to energy conservation and cost-cutting programs, and recycling initiatives.

Listed below are the following:

- Ozone generation
- Natural gas – non-contiguous aggregates
- Paper products made with recycled pulp
- Recycled office supplies in Central Stores Inventory
- Recycled used toner cartridges
- Toilet – Conservacap

#### Ozone Generation

Energy savings from installation of the ozone generation system at the Macomb County Jail are listed below.

#### Annex Area Laundry:

85% Savings on Natural Gas	\$6,750 annually
40% Savings on Total Water = sewer	<u>\$1,533 annually</u>
Total Annual Savings	\$8,283

Cost of the Equipment with Installation \$17,215  
Projected payback: 24 months  
Installed: January 2009

*Distributed  
5-6-09*

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**Main Laundry:**

85% Savings on Natural Gas	\$19,200 annually
40% Savings on Total Water = sewer	<u>\$ 5,450 annually</u>
Total Annual Savings	\$24,650

Cost of the Equipment with Installation \$19,935

Projected payback: 9 months

Installed: September 2008

**Natural Gas – Non-contiguous Aggregates**

In January 2009, Macomb County finalized the streamlining of our purchase of natural gas. We have had Consumers Energy reclassify a majority of our buildings into contiguous and non-contiguous aggregates which will reduce the cost of natural gas and link them to our transportation gas.

The actual savings cannot be reported at this point, but based upon the current price of natural gas, and projecting a fairly stable market price throughout 2009, it is projected that we could realize a savings of approximately \$75,000 in this fiscal year.

Even though we have made these changes, the Purchasing and Facilities & Operations Departments continue to research all alternatives available in order to maximize our savings.

**Paper Products Made with Recycled Pulp**

The following lists the percentage of recycled pulp in various paper items in use by Macomb County:

<u>Description</u>	<u>% Reclaimed</u>
#48000, Bay West, Kraft, multifold towel	100%
#1960, Kimberly-Clark, bleached towel	40%
#4142, Kimberly-Clark, Kraft, roll towel	100%
#145-80, Georgia Pacific, standard size, toilet tissue	95%
#7410, Kimberly-Clark, seat covers	20%

**Recycled Office Supplies in Central Stores Inventory**

\$70,000 is spent annually on recycled products stocked in Central Stores Inventory. Examples as follows: storage boxes, file folders, legal pads, etc.

### **Recycled Used Toner Cartridges**

A pilot program has started for the recycling of used toner cartridges. The Mailroom in the County Building basement is the drop-off location.

### **Toilet – Conservacap**

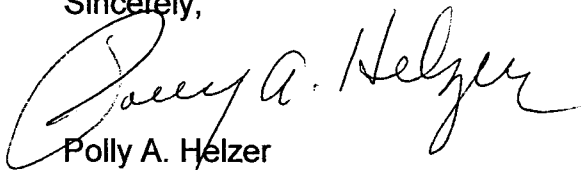
Installation of water-saving conservacaps and installation/retrofit of water-saving faucets in the Macomb County Jail.

We are approximately 2/3 complete with the installation/retrofit with approximately 180 remaining. This limits the length of time the faucet remains on and will automatically shut off.

The conservacaps reduce the volume of water necessary to flush from 3.5 gallons to 2.75 gallons. Estimated savings water and sewer: \$50,000 annually.

If you have any questions, please contact me at 469-5293.

Sincerely,

A handwritten signature in cursive script, reading "Polly A. Helzer". The signature is written in dark ink and is positioned above the printed name and title.

Polly A. Helzer  
Purchasing Manager

PAH/ds  
Attachments

# **RECYCLABLE PAPER**

**RESOLUTION NO.** \_\_\_\_\_

**FULL BOARD MEETING DATE:** \_\_\_\_\_

**AGENDA ITEM:** \_\_\_\_\_

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Authorization to enroll in the Rebuild Michigan Program for the purpose of  
conducting a technical Energy analysis for the following Buildings:

County Building, Court Building, Jail, Southeast Health Center, & Verkuilen Building

**INTRODUCED BY:** Commissioner Toni Mocerì

Ad Hoc Committee on Energy

**COMMITTEE/MEETING DATE**

AD HOC Committee on Energy May 5, 2009

# Rebuild MI Advantages

Rebuild MI helps public facility managers:

- Reduce operating costs
- Increase occupant comfort & productivity
- Pay for projects through energy cost savings
- Raise public awareness & support for energy efficiency
- Increase building system equipment life
- Increase funding for core activities
- Limit harmful emissions
- Showcase leadership & environmental stewardship

More than 550 schools, colleges and municipalities have benefited from Rebuild MI.

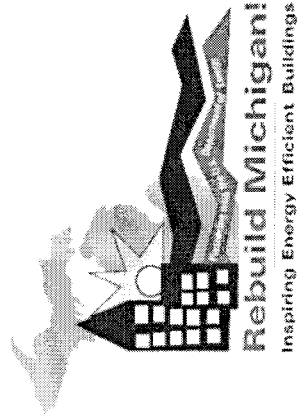
Rev. 11/2008

MI Department of  
Labor & Economic Growth  
Energy Office  
P.O. Box 30221  
611 W. Ottawa, 4th Floor  
Lansing, MI 48909

MICHIGAN  
ENERGY OFFICE

REBUILD  
Michigan

## Energy Assistance For Public Buildings



[www.michigan.gov/eormes](http://www.michigan.gov/eormes)

517.241.6228

# Services Available To Rebuild MI Participants

The Rebuild MI Program assists public K-12 schools, local governments, public colleges/universities, public housing authorities and commercial building owners with increasing operational energy efficiency by:

- ◆ Providing technical assistance
- ◆ Offering attractive financing for cost effective projects
- ◆ Offering educational tools & opportunities
- ◆ Recognizing achievement
- ◆ Disseminating information on technologies

After you enroll, a Rebuild MI technical analyst will complete a free *Introductory Energy Evaluation (IEE)* of your facilities. The IEE report summarizes specific opportunities for reducing energy consumption and includes:

- ◆ A utility bill analysis
- ◆ A list of recommendations for operational and maintenance improvements
- ◆ A list of recommended energy efficiency upgrades plus financing information
- ◆ Project planning assistance

Rebuild MI is offered statewide in cooperation with the U.S. Department of Energy, energy service providers, community partners and affiliated membership associations.

The *Technical Energy Analysis (TEA)* service includes:

- ◆ A list of TEA consultants that can provide a professional, in-depth evaluation of current facility energy usage
- ◆ TEA Guidelines
- ◆ A quality, independent review of your TEA report.

Rebuild MI also provides:

- ◆ Technical workshops and webinars.
- ◆ Newsletters & case studies
- ◆ Information and tools for improving the operational energy efficiency of your buildings.
- ◆ ENERGY STAR benchmarking
- ◆ Information on energy efficiency technologies
- ◆ Community Partnerships

Please send me additional  
Rebuild MI information.

Name \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone \_\_\_\_\_

Email Address \_\_\_\_\_

Best Date & Time To Contact \_\_\_\_\_

Mail this tear-off to the address below or request assistance online at [www.michigan.gov/leornes](http://www.michigan.gov/leornes).

MI Department of  
Labor & Economic Growth  
Energy Office  
P.O. Box 30221  
611 W. Ottawa, 4th Floor  
Lansing, MI 48909

Phone: 517.241.6228  
Fax: 517.241.6229



# Rebuild MI Advantages

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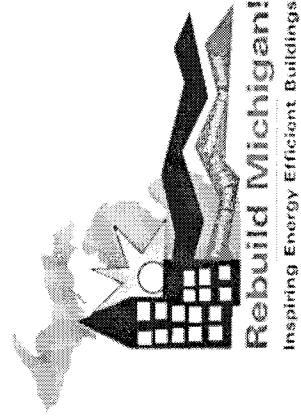
Rev. 11/2008

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P.O. Box 30221  
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MICHIGAN  
ENERGY OFFICE

REBUILD  
Michigan

## Energy Assistance For Public Buildings



[www.michigan.gov/eormes](http://www.michigan.gov/eormes)

517.241.6228

## Rebuild Michigan ENROLLMENT AGREEMENT

This agreement between the Michigan Department of Energy, Labor & Economic Growth, Bureau of Energy Systems (BES) and the \_\_\_\_\_, outlines each organization's responsibilities for participating in the Rebuild Michigan program. Rebuild Michigan fosters partnerships that promote increased energy efficiency and renewable energy within a community. Rebuild Michigan provides services to public schools, community colleges, universities, public housing commissions and local governments to encourage energy efficiency improvements in their facilities. Assistance includes an assessment of energy savings potential for each building and recommendations and consultation regarding next steps (including an appropriate level of engineering services for Technical Energy Analyses (TEA)/project). A consultants' directory, project financing information and project troubleshooting are also offered.

### **The Enrollee agrees to:**

- Designate an organization representative to serve as the principal contact with BES.
- Provide specific information for each participating building (see page 2).
- Present the Introductory Energy Evaluation report (prepared by BES) to the appropriate governing body, committee or individual responsible for approving an energy efficiency project.

If energy efficiency potential is identified the Enrollee agrees to:

- Participate in a planning session with BES staff to discuss/assess enrollee interest in undertaking an energy efficiency project and to determine what BES support services will be needed.

If Enrollee decides to pursue a TEA or performance contract, the Enrollee agrees to:

- Contract with TEA analyst or Energy Service Co. (ESCO) to complete a TEA for each participating building. (Guidelines are available from the BES for quality assurance.)
- Direct their selected TEA analyst or ESCo to forward a draft copy of the TEA report to BES for review and approval, prior to organization's acceptance.
- Present TEA/performance contract recommendations to the appropriate governing body, committee or individual responsible for authorizing the recommended energy efficiency project(s).

When authorized to implement the project, the Enrollee agrees to:

- Provide a description & cost of the installed energy efficiency measures and copies of current utility bills for participating buildings to the BES as reasonably requested.

### **The Bureau of Energy Systems agrees to:**

- Analyze the previous 12-months of energy usage for each participating building (up to 10 buildings or a maximum of 750,000 ft<sup>2</sup>), conduct a walk-through of each building and provide the Enrollee with a written report on their relative energy efficiency and areas for potential savings.
- Maintain a directory of consultant firms that conduct TEAs and participate in the Rebuild Michigan Program...
- Review all Technical Energy Analyses for quality, accuracy and completeness.
- Assist enrollee in resolving technical issues that may arise during project installation.
- Assist enrollee in evaluating first year energy savings and other project benefits.

### Contact/Building Information

Contact Person &amp; Title:

Ph. #:

Fax #:

E-mail:

Address:

City: \_\_\_\_\_

State: Michigan Zip Code: \_\_\_\_\_

## Rebuild Michigan Project Buildings:

	Building Name	Address	Sq. Ft.	Yr. Built
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

\*Most recent 12 months of utility data (or copies of utility bills) is required for each building listed

Planning Questions: (500 character maximum, attach additional sheet(s) if necessary)

1. What are your goals for building performance and energy reduction?

2. How will building energy improvements fit in with other organization priorities?

--

3. What financing options and sources are you considering for building improvements?

--

4. What is your likely timeframe for developing and completing an energy efficiency project?

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Enrollee:
<div></div>
Signature/Date
<div></div>
Title/Position

Bureau of Energy Systems, MI Department of Energy, Labor & Economic Growth:
<div></div>
Signature/Date
<div></div>
Title/Position

# **RECYCLABLE PAPER**

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Release an RFP for a Consultant to Assist the County in Developing a Mandatory Energy Efficiency Conservation Strategy, as Required by the Energy Efficiency and Conservation Block Grant (EECBG) Program. Funding for the Consultant is an Eligible Expense.

**INTRODUCED BY:** Commissioner Toni Mocerri, Chair of the Ad Hoc Committee on Energy

**DESCRIPTION:**

See Attached

**COMMITTEE/MEETING DATE**

Ad Hoc Committee on Energy/5-6-09

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## Part 2: Attachment D – The Specifics

EECBG for Entitlement Communities  
April 28, 2009

Shanna Draheim

### Outline

- What is an EECS?
- Where to Start
- Details on 6 Parts of Appendix D
- Additional Suggestions



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### What is the EECS - Introduction

- EECBG requires preparation of an Energy Efficiency Conservation Strategy (EECS)
- Strategy can be submitted with application, or within 120 days of application
- Appendix D of funding guidance lays out the essential elements that must be addressed
  - Don't be fooled by the "fill in the blanks" format
  - Don't be daunted either



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### What is the EECS - Introduction

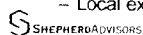
- The EECS is the deliverable to DOE
  - This is what you need to get the \$\$\$
  - Addresses 6 Parts of Appendix D
- Use well thought-out planning process to create a robust, coherent strategy:
  - Meets minimum EECS requirements for DOE
  - Positions you for future grants
  - Creates opportunities for leveraging funds within the community



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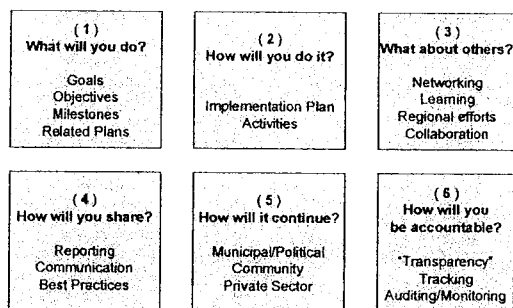
### Where to Start...

- Decide the scope of your effort
  - Who should be involved (e.g., staff, partners, and other stakeholders)
  - How broad or narrow do you want to be?
  - What do time and resources allow
- Choose a facilitator for the process/discussions
  - Internal or external
- Build off of what you already have in place
  - Existing or historical programs and initiatives
  - Local expertise



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### The 6 Parts of Appendix D



## Part 1 What will you do?

Goals  
Objectives  
Milestones  
Related Plans



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## Part 1 – What Will You Do?

*"Describe your government's proposed Energy Efficiency and Conservation Strategy.*

*Provide a concise summary of your measureable goals and objectives, which should be aligned with the defined purposes and eligible activities of the EECBG Program.*

*These goals and objectives should be comprehensive and maximize benefits community-wide.*

*Provide a schedule or timetable for major milestones.*

*If your government has an existing energy, climate, or other related strategy please describe how these strategies relate to each other."*



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## Part 1 – What Will You Do?

### "Energy Efficiency and Conservation Strategy"

- Description or summary of your strategy
- The introduction to the rest of the elements that will be addressed



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## Part 1 – What Will You Do?

### "Measurable Goals and Objectives"

- Directly tied to the **purposes** of the EECBG and eligible activities (pgs. 5 – 7 of the FOA)
- **Comprehensive** – overall energy goals for your community.
  - Think big at this point, without focusing on resource constraints or barriers
- **Maximize benefits community-wide**
  - Think outside the municipal box



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## Part 1 – What Will You Do?

### Goals:

- Discrete end points or future accomplishments
- "Ideal" goals are ...
  - Ambitious,
  - Relevant to the purpose of the EECBG,
  - A good "fit"
  - Doable, and
  - Realistic in a reasonable period of time.
- For Example .... "Cut city-wide street light energy use by 25% within 3 years."



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## Part 1 – What Will You Do?

### Objectives:

- Break down goals into "bite size" pieces
- Include greater detail than goals, and tie them explicitly to EECBG purposes and eligible activities
- Assign responsibility (e.g., department, staff)
- For Example...
  - "In the next six months, DPW will replace 30% of city's street lights with LEDs"



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## Part 1 – What Will You Do?

### "Milestones/Timelines"

- Milestones = Meaningful accomplishments
- Include a timeline of major milestones for each objective

### "Existing, Related Plans"

- How does this strategy tie into other existing strategies?
- E.g., Green Community Challenge, Mayor's Climate Protection Agreement



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( 2 )

How will you do it?

Implementation Plan  
Activities



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## Part 2 – How Will You Do It?

*"Describe your government's proposed implementation plan for the use of EECBG Program funds to assist you in achieving the goals and objectives outlined in the strategy described in Part #1."*

*Your description should include a summary of the activities submitted on your activity worksheets, and how each activity supports one or more of your strategy's goals/objectives"*



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## Part 2 – How Will You Do It?

### "Implementation Plan/Summary of Activities":

- Goals and objectives are the what – this is the HOW
- For each objective, ask yourselves what things need to be done, what actions taken
- For Example:  
"Investigate LED street light manufacturers," and  
"issue RFQ to seek bulk purchase rate and guaranteed delivery dates."



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## Part 2 – How Will You Do It?

- Be Specific
- Be Realistic!
- Make sure its aligned with DOE Priorities



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( 3 )

What about others?

Networking & Learning  
Existing Regional Efforts  
Collaboration



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### Part 3 – What About Others?

*"Describe how your government is taking into account the proposed implementation plans and activities for use of funds by adjacent units of local government that are grant recipients under the Program"*



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### Part 3 – What About Others?

#### Networking and Learning

- Work with regional or state groups to help network (e.g., MML, SE MI Energy Office)
- Share best practices and experiences

#### Regional Efforts

- Do the objectives/strategies tie into existing regional efforts that could be expanded?



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### Part 3 – What About Others?

#### Collaboration with Neighbors

- Leverage ideas, money, programs, resources with neighbors
- Build "market" breadth and density
- Reduce administrative burdens
- Spread out fixed costs
- Add value/purchasing power (e.g., aggregated purchasing programs)



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(4)  
**How will you share?**

Reporting  
Communication  
Best Practices



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### Part 4 – How Will You Share?

*"Describe how your government will coordinate and share information with the state in which you are located regarding activities carried out with grant funds to maximize energy efficiency and conservation benefits"*



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### Part 4 – How Will You Share?

- Provide the state with updates on activities so that methods, best practices can be shared
- New communication paradigm with this administration
  - Use of technology for outreach and reporting
  - Ongoing updates – not just annual reporting (e.g., websites - blogs, Facebook)
- Other modes – newsletters, forums, press, community events




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( 5 )

**How will it continue?**


**Municipal/Political Buy-In**  
**Community Buy-In**  
**Private Sector Change**

 SHEPHERDADVISORS www.energy-efficiency-plan.com

**Part 5 – How Will it Continue?**

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*"Describe how this plan has been designed to ensure that it **sustains** benefits beyond the EECBG funding period"*

 SHEPHERDADVISORS www.energy-efficiency-plan.com

**Part 5 – How Will it Continue?**

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- Describe how your goals, objectives and actions were designed to be sustainable beyond funding
- Several aspects of sustainability:
  - Municipal/political buy-in
  - Community buy-in
  - Private sector engagement

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**Part 5 – How Will it Continue?**


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**Municipal/Political**

- Buy-in by local leaders and staff
- Staff capacity
- Local funding to leverage EECBG

**Community**

- Stakeholders engaged in planning, bought into goals
- Outreach


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**Part 5 – How Will it Continue?**

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**Private sector**


- Balance between municipal actions and activities to stimulate private sector
- Programs focused on behavior change and investment within community (e.g., residential and commercial lighting upgrades)
- Does it create local jobs
- Leveraging funding/opps with utility Energy Optimization efforts or MI PAYS program

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( 6 )

**How accountable?**

**"Transparency"**  
**Tracking**  
**Auditing/Monitoring**

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## Part 6 – How Accountable?

*"The President has made it clear that every taxpayer dollar spent on our economic recovery must be subject to unprecedented levels of transparency and accountability."*

*Describe the auditing or monitoring procedures currently in place or that will be in place (by what date), to ensure funds are used for authorized purposes and every step is taken to prevent instances of fraud, waste, error, and abuse"*



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## Part 6 – How Accountable?

### Transparency :

- Huge emphasis of the administration in allocating ARRA funds
- Progress is up to date and information accessible
- Be proactive and getting out front on information sharing

### Accountability

- Special terms and conditions (p. 4 FOA)

[http://management.energy.gov/business\\_doe/business\\_forms.htm](http://management.energy.gov/business_doe/business_forms.htm)



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## Part 6 – How Accountable?

### Auditing/Monitoring

- Cost controls
- Separate accounting when mixing with other funding (p. 5 of FOA)



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## Additional Suggestions and Tools

Invest the time upfront to understand your community's energy use, think through the big picture, and develop structural programs that will yield long-term benefits

### Establish baselines

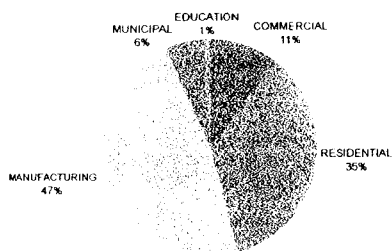
- Energy audits and/or Portfolio Manager
- Estimated energy use by sector
  - Integrate US Census & DOE Reference Info



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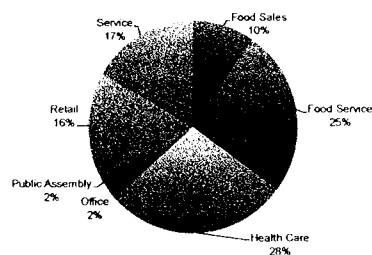
## Additional Suggestions and Tools

Example SE Michigan Community  
Total Energy Consumption - M Btu



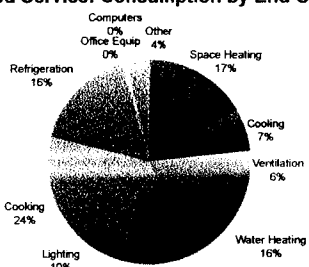
## Additional Suggestions and Tools

Example SE Michigan Community  
Total Commercial Energy Consumption - M Btu



## Additional Suggestions and Tools

### Example SE Michigan Community: Food Service: Consumption by End Use



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## Additional Suggestions and Tools

### Cast a vision for success

- a picture of what your community looks like in the future because of this effort

### Prioritize

- Criteria for selecting among actions, timing

### Identify, Assess & Select Options

- Choose the "best" pathway to meet your goals

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## Questions

- How far along are you?
- What seems the most challenging?
- What do you most need help with?

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# **RECYCLABLE PAPER**

RESOLUTION NO. \_\_\_\_\_

FULL BOARD MEETING DATE:  
AGENDA ITEM:

**MACOMB COUNTY, MICHIGAN**

**RESOLUTION TO:** Authorize PED to Coordinate the Preparation of the EECBG Proposal in Time for the June 25 Deadline

**INTRODUCED BY:** Commissioner Toni Mocerri, Chair of the Ad Hoc Committee on Energy

**DESCRIPTION:**

See Attached

**COMMITTEE/MEETING DATE**

Ad Hoc Committee on Energy/5-6-09  
\_\_\_\_\_  
\_\_\_\_\_

*Overview*

American Reinvestment and Recovery Act

**Energy Efficiency and Conservation Block Grant (EECBG)**

*as prepared by the Macomb County Department of Planning & Economic Development*

Purpose: to assist eligible entities in creating and implementing strategies to:

- Reduce fossil fuel emissions in a manner that is environmentally sustainable and, to the maximum extent practicable, maximizes the benefits for local and regional communities;
- To reduce the total energy use of the eligible entities; and
- To improve energy efficiency in the building sector, the transportation sector and other appropriate sectors.

Desired program outcomes include:

- Increased energy efficiency, reduced energy consumption and reduced energy costs through efficiency improvements in the building, transportation and other appropriate sectors;
- New jobs and increased productivity to spur economic growth and community development;
- Accelerated deployment of market-ready distributed renewable energy technologies, including wind, solar, geothermal, hydropower, biomass and hydrogen technologies;
- Improved coordination of energy-related policies and programs across jurisdictional levels of governance and with other local and community level programs in order to maximize the impact of this program on long-term local priorities;
- Increase security, resilience and reliability of energy generation and transmission infrastructure;
- Leveraging of the resources of federal, state and local government, utilities and utility regulators, private sector and non-profit organizations to maximize the resulting energy, economic and environmental benefits; and
- Widespread use of innovative financial mechanisms that transform markets.

Eligible activities include:

- Development of an “*Energy Efficiency and Conservation Strategy*” – required of all recipients
- Technical consultant services
- Residential and commercial building energy audits
- Financial incentive programs
- Energy Efficiency retrofits
- Energy Efficiency and Conservation program for buildings and facilities
- Development and implementation of transportation programs
- Building codes and inspections
- Energy distribution
- Material conservation programs
- Reduction and capture of methane and greenhouse gases
- Traffic signals and street lighting
- Renewable energy technologies on government buildings
- Any other appropriate activity

### Energy Efficiency and Conservation Strategy (EECS)

All applications must submit an EECS. LUGs have an option of submitting the EECS no later than 120 days after the effective date of the award. The EECS will address the following:

1. Describe your government's proposed EECS. Provide a concise summary of your measurable goals and objectives, which should be aligned with the defined purposes and eligible activities of the EECBG program. These goals and objectives should be comprehensive and maximize benefits community-wide. Provide a schedule or timetable for major milestones. If your government has an existing energy, climate or other related strategy please describe how these strategies related to each other.
2. Describe your government's proposed implementation plan for the use of EECBG program funds to assist you in achieving the goals and objectives outlined in question #1. Your description should include a summary of the activities submitted on your activity worksheets and how each activity supports one or more of your strategy's goals/objectives.
3. Describe how your government is taking into account the proposed implementation plans and activities for use of funds by adjacent units of local government that are grant recipients under the program
4. Describe how your government will coordinate and share information with the state in which you are located regarding activities carried out with grant funds to maximize energy efficiency and conservation benefits.
5. Describe how this plan has been designed to ensure that it sustains benefits beyond the EECBG funding period.
6. The President has made it clear that every taxpayer dollar spent on our economic recovery must be subject to unprecedented levels of transparency and accountability. Describe the auditing or monitoring procedure currently in place or that will be in place (by what date) to ensure funds are used for authorized purposes and every step is taken to prevent instances of fraud, waste, error and abuse.

### Funding restrictions

Up to 10 percent of \$75,000 whichever is greater, of grant funds may be used for administrative expenses, excluding the cost of meeting the reporting requirements of the program.

Administrative costs are the allowable, reasonable and allocable direct and indirect costs related to overall management of the awarded grant.

Up to 20 percent or \$250,000, whichever is greater, of grant funds may be used to establish a revolving loan fund.

Up to 20 percent or \$250,000, whichever is greater, of grant funds may be used for the provision of subgrants to nongovernmental organizations for the purposes of assisting in the implementation of the Energy Efficiency and Conservation Strategy.

### Timeline

Applications are due June 25, 2009 by 8 p.m. eastern time. Applicants must be registered with

### Eligible applicants

- All 50 states plus the District of Columbia and territories of the United States (Puerto Rico, The U.S. Virgin Islands, American Samoa, Guam and the Commonwealth of the Northern Mariana Islands)
- Cities with a population of more than 35,000 (or the ten most populated cities within a state)
- Counties with a population of more than 200,000 (or the ten most populated counties within a state)

### Allocations

The American Recovery and Reinvestment Act of 2009 appropriated \$3.2 billion for EECBG for fiscal year 2009. Of that:

- \$1,863,881,000 for formula grants to eligible cities and counties
- \$767,480,000 for formula grants to states
- \$54,819,900 for formula grants to eligible Indian tribes

DOE will retain \$59 million to provide technical assistance and training for grantees under the program. Each state is required to pass not less than 60 percent of its allocation through to cities and counties within the state that are ineligible for direct formula grants.

Specifically, the State of Michigan (Energy Office) will receive \$19,599,600. In Macomb:

<b>Entitlement Community</b>	<b>Allocation</b>
Chesterfield Township	\$181,100
Clinton Township	894,600
Macomb Township	610,200
Roseville	198,600
Shelby Township	651,200
St. Clair Shores	544,000
Sterling Heights	1,203,800
Warren	1,358,600
<b>Macomb County</b>	<b>746,400</b>
<b>TOTAL</b>	<b>\$6,388,500</b>

All funds must be obligated/committed within 18 months of the effective date of the award and expended within 36 months of the effective date of award. (It is anticipated that awards will be announced within 60 days of submittal)

Eligible entities receiving more than \$250,000 but less than \$2 million may receive up to \$250,000 for development of the EECS and approved activities. The EECS is required within 120 days of the effective date of the award. The balance of the allocation will be obligated upon DOE approval of the EECS.

### Cost Sharing

Not required; however, leveraging of funds by grantees is encouraged in order to maximize the total additional energy-related benefits resulting from the program.

EECBG  
Macomb's Possibilities?

- ❑ Join with the Regional Partnership for Sustainability to hire a consultant to assist the "Big Four" in adopting the Grand Rapids model on a regional basis? (\$25,000 each?)
- ❑ Develop a Facilities Master Plan - consultant jobs
  - EE upgrades to buildings - aggregated performance based contracts?
  - Employee education - practically free with big results - lights, recycling, office hours, computers (establish baseline)
  - Result: Energy Star rating on # % of county buildings by 20##
- ❑ Energy audits for small business
- ❑ RLF for small business to upgrade - 20 percent from every entitlement - RLF managed independently (create jobs) (\$149,000 the limit from Macomb's allocation)
- ❑ EE for Residents
  - Weatherization - leverage existing dollars to claim results
  - Educational outreach
  - How the average resident can take advantage of federal tax incentives
- ❑ Hire a Sustainability Manager
  - Energy Star program manager with Facilities
  - Program coordinator for all
  - Seek other grants and partnership opportunities
  - Consult with LUGs regarding other "green" and low-impact development issues
- ❑ Other things to consider
  - Support of countywide Master Plan for Trails, etc.
  - Transportation?

*distributed  
5-6-09*